

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Original) A Stirling engine comprising:

a cylinder;

a piston and a displacer that reciprocate in a direction of an axis of the cylinder; and

a displacer supporting spring elastically supporting the displacer,

wherein the displacer is fixed at a center of the displacer supporting spring, and

wherein the displacer is fixed to the displacer supporting spring along with a washer

having a weight corresponding to a calculated additional weight that achieves a target resonance frequency.